

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-98

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
PCE0505FDD8 (413G)	8.3 (505)	Oxidation Catalytic Converter Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification emission standards for this engine family in grams per brake horsepower-hour are as follows:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The certification emission values for this engine family in grams per brake horsepower-hour are as follows:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
PCE0505FDD8 (413G)	0.3	0.8	4.9	0.14

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 24<sup>th</sup> day of November, 1993.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer: Cummins Engine Company, Inc. Engine Family: 413G PCE0505FDD8  
Liter (CID): 8.3 (505) Fuel Type: Diesel Engine Config.: I-6  
Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) OC (TC, CAC)  
(Use abbreviations per SAE J1930 May 91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm <sup>3</sup> /stroke (lbs/hr)	Fuel Pump and Injector(1) P/N	ECM/PCM P/N	Part.Trap/ Catalyst P/N
C8.3-250 (1569)	250 @ 2200	125 (92.5)	3922471 3922913(1)	NA	3926265
C8.3-225 (1563)	225 @ 2200	113 (83.9)	3922424 3922907(1)	NA	3926265
C8.3-210 (1563)	210 @ 2200	106 (78.3)	3922426 3922907(1)	NA	3926265

Revisions:

SUBMITTED  
OCT 12 1993